Notice of Allowability	Application No.	Applicant(s)	
	10/602,038	SENGODAN, KATHIRAVAN	
	Examiner	Art Unit	
	Isaac T. Tecklu	2192	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *04/02/2007*.

2. ☒ The allowed claim(s) is/are *1-5, 9-14 and 18-23 (renumbered as 1-17)*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 04/02/07
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

TUAN DAM
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

1. This action is responsive to the applicant's amendment filed on 04/02/2007.

2. The Terminal Disclaimer filled on 04/09/2007 has been approved.

3. Claims 1, 2, 4-5, 9-11, 13-14 and 18 have been amended.

4. Claims 6-8 and 15-17 have been canceled.

5. New claims 19-23 have been added.

6. Claims 1-5, 9-14 and 18-23 are being allowed.

EXAMINER'S AMENDMENT

7. An examiner's amendment to the record appear below. Should the change and/or additions be unacceptable to the Applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such amendment, it MUST be submitted no later than the payment of issue fee.

Authorization for examiner's amendment was given in a telephone interview with Karl Kenna, Registration No. 45, 445 on June 5, 2007. A proposed amendment has been received and adopted by the Examiner - See attached on pages 5-9.

--End--

Allowable Subject Matter

8. The following is an examiner's statement of reasons for allowance:

As applicant pointed out under Remark section, pages 14-15, Najmi (US 6,753,889) taken either singly and/or in combination with other cited prior arts, do not teach validating the markup language commands at a command processor, and for each markup language command converting the markup language command into a command object for communication to command dispatcher; receiving the command objects from the command processor at a command dispatcher and for each command object assigning the command object to one of a plurality of categories corresponding to the enterprise service application programming interface specified in the user input markup language program; and communicating the command objects to a plurality of processor modules including a processor module for each category of enterprise service application programming interface, wherein the processor module receives the command objects assigned to its category and uses the command object to perform operations at the corresponding enterprise service application programming interface located on the server, as recited in such manners in each of independent claims 1, 10 and 19.

Prior arts of record do not teach and/or suggest these claimed limitations, thus, all remaining pending claims 1-5, 9-14 and 18-23 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isaac Tecklu whose telephone number is (571) 272-7957. The examiner can normally be reached on M-TH 9:300A - 8:00P.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TUAN DAM
SUPERVISORY PATENT EXAMINER

Isaac Tecklu
Art Unit 2192

In the Claims:

Please amend Claims 1, 2, 4-5, 9-11, 13-14 and 18-19; cancel Claims 6-7 and 15-16; and add new Claims 20-23, all as shown below.

1. (Currently Amended) A system including an integrated development environment for use with a mark-up language, to abstract complexity of enterprise service application program interface (API) programming, comprising:

a server computer, including a processing device and a plurality of enterprise service API for one of messaging, operation, administration, and management monitoring;

a client computer, including a processing device;

an integrated development environment that includes a graphical user interface that executes on [[a]] the client ~~machine~~ computer, and that ~~allows a user to enter a markup language program~~ receives a user input markup language program, wherein the user input markup language program specifies the name of at least one enterprise service API at the server processor, and operations to be performed therewith;

a parser that receives the user input markup language program from the integrated development environment and parses the user input markup language program to extract markup language commands;

a command processor that validates the markup language commands, and, for each markup language command converts the markup language command into a command object for communication to a command dispatcher;

a command dispatcher that receives the command objects from the command processor and, for each command object, assigns the command object to one of a plurality of categories corresponding to [[a]] the ~~plurality of application program interfaces~~ enterprise service API specified in the user input markup language program;

a plurality of processor modules, including a processor module for each category of ~~application program interface~~ enterprise service API, wherein each processor module receives the command objects assigned to its category, and ~~performs appropriate operations against the corresponding application program interface~~ uses the command object to perform operations at the corresponding enterprise service API located on the server; and

wherein the integrated development environment allows the user to edit and modify the markup language program as desired to access the ~~application program interfaces~~ enterprise service API.

2. (Currently Amended) The system of claim 1 wherein the markup language is ~~Java Message Service Markup Language~~ JMSML.

3. (Previously Presented) The system of claim 1 wherein the graphical user interface includes a source editor that allows a user to enter programs as Extensible Markup Language code.

4. (Currently Amended) The system of claim 1 wherein the graphical user interface includes a design editor and a set of toolbars that allow a user to generate Extensible Markup Language source code by visually assembling commands ~~conforming to the Java Message Service specification~~ within the graphical user interface.

5. (Currently Amended) The system of claim 2 wherein the graphical user interface includes a source editor that allows a user to enter ~~Java Message Service Markup Language~~ JMSML programs as Extensible Markup Language code.

6-8. (Canceled).

9. (Currently Amended) The system of claim 1 wherein said integrated development environment is used to communicate said markup language components to ~~said remote~~ the server computer via a wide area network or the Internet.

10. (Currently Amended) A method of using an integrated development environment with a mark-up language, comprising:

~~providing an integrated development environment that includes a graphical user interface that executes on a client machine, and that allows a user to enter and edit a markup language program;~~

~~receiving the markup language program from the integrated development environment and parsing the markup language program to extract markup language commands;~~

~~validating the markup language commands; and, for each markup language command converting the markup language command into a command object for communication to a command dispatcher;~~

~~receiving command objects at the command dispatcher and, for each command object, assigning the command object to one of a plurality of categories corresponding to a plurality of application program interfaces;~~

~~communicating the command objects to a plurality of processor modules, including a processor module for each category of application program interface, wherein each processor module receives the command objects assigned to its category; and~~

~~performing appropriate operations against the corresponding application program interface, as specified by the user in the markup language program~~

providing a server computer, including a processing device and a plurality of enterprise service application program interface (API) for one of messaging, operation, administration, and management monitoring;

providing a client computer, including a client processing device;

providing an integrated development environment that includes a graphical user interface that executes on the client computer, and that receives a user input markup language program, wherein the user input markup language program specifies the name of at least one enterprise service API at the server processor, and operations to be performed therewith;

receiving the user input markup language program from the integrated development environment at a parser, and parsing the user input markup language program to extract markup language commands;

validating the markup language commands at a command processor, and, for each markup language command converting the markup language command into a command object for communication to a command dispatcher;

receiving the command objects from the command processor at a command dispatcher and, for each command object, assigning the command object to one of a plurality of categories corresponding to the enterprise service API specified in the user input markup language program;

communicating the command objects to a plurality of processor modules, including a processor module for each category of enterprise service API, wherein each processor module receives the command objects assigned to its category, and

using the command object to perform operations at the corresponding enterprise service API located on the server.

11. (Currently Amended) The method of claim 10 wherein the markup language is ~~Java Message Service Markup Language~~ JMSML.

12. (Previously Presented) The method of claim 10 wherein the graphical user interface includes a source editor that allows a user to enter programs as Extensible Markup Language code.

13. (Currently Amended) The method of claim 10 wherein the graphical user interface includes a design editor and a set of toolbars that allow a user to generate Extensible Markup Language source code by visually assembling commands ~~conforming to the Java Message Service specification~~ within the graphical user interface.

14. (Currently Amended) The method of claim 11 wherein the graphical user interface includes a source editor that allows a user to enter ~~Java Message Service Markup Language~~ JMSML programs as Extensible Markup Language code.

15-17. (Canceled)

18. (Currently Amended) The method of claim 10 wherein said integrated development environment is used to communicate said markup language components to ~~said remote~~ the server computer via a wide area network or the Internet.

19. (Currently Amended) A computer ~~readablemedium~~ program product including a storage medium having instructions stored thereon, which when executed cause the computer to perform the steps of:

~~providing an integrated development environment that includes a graphical user interface that executes on a client machine, and that allows a user to enter and edit a markup language program;~~

~~receiving the markup language program from the integrated development environment and parsing the markup language program to extract markup language commands;~~

~~validating the markup language commands, and, for each markup language command converting the markup language command into a command object for communication to a command dispatcher;~~

~~receiving command objects at the command dispatcher and, for each command object, assigning the command object to one of a plurality of categories corresponding to a plurality of application program interfaces;~~

~~communicating the command objects to a plurality of processor modules, including a processor module for each category of application program interface, wherein each processor module receives the command objects assigned to its category; and~~

~~performing appropriate operations against the corresponding application program interface, as specified by the user in the markup language program~~

providing a server computer, including a processing device and a plurality of enterprise service application program interface (API) for one of messaging, operation, administration, and management monitoring;

providing a client computer, including a client processing device;

providing an integrated development environment that includes a graphical user interface that executes on the client computer, and that receives a user input markup language program,

wherein the user input markup language program specifies the name of at least one enterprise service API at the server processor, and operations to be performed therewith;

receiving the user input markup language program from the integrated development environment at a parser, and parsing the user input markup language program to extract markup language commands;

validating the markup language commands at a command processor, and, for each markup language command converting the markup language command into a command object for communication to a command dispatcher;

receiving the command objects from the command processor at a command dispatcher and, for each command object, assigning the command object to one of a plurality of categories corresponding to the enterprise service API specified in the user input markup language program;

communicating the command objects to a plurality of processor modules, including a processor module for each category of enterprise service API, wherein each processor module receives the command objects assigned to its category, and

using the command object to perform operations at the corresponding enterprise service API located on the server.

20. (New) The system of claim 1 wherein the parser, command processor, command dispatcher and plurality of processor modules are located on the client computer.

21. (New) The system of claim 1 wherein the parser, command processor, command dispatcher and plurality of processor modules are located on the server computer.

22. (New) The method of claim 10 wherein the parser, command processor, command dispatcher and plurality of processor modules are located on the client computer.

23. (New) The method of claim 10 wherein the parser, command processor, command dispatcher and plurality of processor modules are located on the server computer.